FEEDBACK

Try it again

Dear Editor:

I feel bad that my contribution in SQL to the "Table of cubes" problem in the EOF column (Mar. 1991) was almost as bad as the version given in Ada. It wasn't my fault that my SQL query was so baroque; SQL is a query language and not a computational one.

People might think I go around writing stuff like that for a living. Listing 1 shows a very fast and compact algorithm in a Pascal

LISTING 2.

```
In file COMPLANG.PGM:
NODE aTransputer:
ARC hostlink:
NETWORK single
D0
SET aTransputer (type, memsize := "T800", #200000)
CONNECT aTransputer [link] [0] TO HOST WITH hostlink
:
#INCLUDE "hostio.inc" --constrants
#USE "compland.c8h --program
CHAN OF SP fs, ts:
```

LISTING 1.

BEGIN

```
x,y,z,n : INTEGER;
n := 0; x:=0;
y := 1; z:=6;
WHILE (n <= 10)
D0 BEGIN
WriteLn (n, " cubed is ", x);
n := n + 1;
x := x + y;
y := y + z;
z := z + 6;
END;
END;
```

block that computes the cubes and avoids multiplication altogether. It is based on induction on the formula $(n + 1)^3 = ((n^3) + (3^*(n^2))$ $+ (3^*n) + 1).$

> Joe Celko Los Angeles, Calif.

Occam's cube

Dear Editor:

As a transputer user, I hereby send the occam-2 version of "cube" for "If you only have a nail, every tool looks like a hammer" (March 1991). See Listing 2.

> Øyvind Teig Trondheim, Norway

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Recycle this magazine

Dear Editor:

I am a prisoner in the Virginia prison system and a business man-

```
CONFIG
    PLACE fs, ts ON hostlik:
   PROCESSOR aTransputer
    OneToTenCuber (fs, ts)
 :
In file COMPLANG.OCC:
  #INCLUDE "hostio.inc"
  #USE
           "hostio.lib"
 PROC OneToTenCuber (CHAN OF SP fs, ts)
    SEQ
      SEQ i = 1 FOR 10
       SEQ
          so.write.int (fs, ts, i, 2)
          so.write.string (fs, ts," to the third power is ")
          INT INLINE FUNCTION Cube () IS ((i*i)*i):
          so.write.int (fs, ts, Cube (), 4)
          so.write.nl (fs, ts)
      so.exit (fs, ts, sps.success)
```